PATENT

DOCKET NO.: JJPR-0033/ORT-1377DIV2

Application No.: 10/626,126

Office Action Dated: December 9, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Currently amended) An isolated and purified nucleic acid molecule that encodes a <u>rat mammalian</u> histamine H4 receptor protein, <u>or a complement of</u> said nucleic acid molecule, comprising a member selected from the group consisting of:
- (a) a <u>polynucleotide</u> nucleic acid molecule encoding a protein comprising amino acids 1 to 391 of SEQ ID NO:9;
- (b) a polynucleotide that nucleic acid molecule which is complementary to the polynucleotide of (a);
- (c) a nucleic acid molecule comprising at least 15 sequential bases of the polynucleotide of (a) or (b); and
- (d) a nucleic acid molecule that hybridizes under stringent conditions to the polynucleotide molecule of (a) or (b).
- 2. (Original) The nucleic acid molecule of claim 1 wherein the polynucleotide is RNA.
- 3. (Original) The nucleic acid molecule of claim 1 wherein the polynucleotide is DNA.
- 4. (Currently amended) The isolated and purified nucleic acid molecule of claim 1, having the a nucleotide sequence of SEQ ID NO:6.
 - 5. (Canceled)
- 6. (Currently amended) An expression vector for expression of a <u>rat</u> mammalian histamine H4 receptor protein in a recombinant host, wherein said vector contains a nucleic acid sequence encoding a <u>rat</u> mammalian histamine H4 receptor protein having <u>the</u> an amino acid sequence of SEQ ID NO:9.

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7. (Currently amended) The expression vector of claim 6, wherein the expression vector contains a nucleic acid molecule encoding a mammalian histamine H4 receptor protein having the a nucleotide sequence of SEQ ID NO:6.

- 8. (Canceled)
- 9. (Currently amended) A recombinant host cell containing a recombinantly cloned nucleic acid molecule encoding a <u>rat mammalian</u> histamine H4 receptor protein having the an amino acid sequence of SEQ ID NO:9.
- 10. (Currently amended) The recombinant host cell of claim 9, wherein said nucleic acid molecule has the a nucleotide sequence of SEQ ID NO:6.
 - 11. (Canceled)
 - 12. (Canceled)
 - 13. (Canceled)
 - 14-15. (Canceled)
- 16. (Currently amended) A process for expression of <u>rat</u> mammalian histamine H4 receptor protein in a recombinant host cell, comprising:
- (a) transferring an expression vector containing a nucleic acid sequence encoding a rat histamine H4 receptor protein having an amino acid sequence of SEQ ID NO:9 the expression vector of Claim 6 into suitable host cells; and
- (b) culturing the host cells of step (a) under conditions which allow expression of the rat mammalian histamine H4 receptor protein from the expression vector.

17-25. (Canceled)